

B115_B B110_B B90_B



B115B - B110B

B90B

BUCKET CAPACITY

UP TO 1,2 M³ BUCKET

1,0 M³ BUCKET

ENGINE POWER

110 HP

100 HP



BUILT AROUND YOU

B115B/B110B/B90B

ENVIRONMENTAL EFFICIENCY

10% reduction in fuel
consumption and emissions

BEST IN CLASS PRODUCTIVITY

10% more power than
competitive machines



HIGH OPERATING COMFORT

Class-leading operator environment

LOW COST OF OWNERSHIP

Fuel efficient
Easy to maintain



BI15B/BI10B/B90B

ENVIRONMENTAL CONCERN

LESS FUEL CONSUMPTION RESULTS IN LOWER ENGINE EMISSIONS

- 10% Fuel



The 4.5 litre turbocharged engines for the new machines are provided by FPT Industrial, a world-wide leader in the design, production and sale of powertrains for industrial applications, supplying among others Fiat Industrial brands such as New Holland Construction and Iveco.

The Variable Displacement Pump hydraulic system is standard on BI10B and above, contributing to a 10% fuel saving and a rapid return on investment.

LOW NOISE LEVELS FOR URBAN JOBSITES

- Reduced emission Tier III engine
- Low external noise levels
- New Holland CB90S is a silenced hydraulic breaker especially designed for backhoe loader use
- Rubber pads under the stabilizers reduce ground damage in sensitive operating conditions

BEST IN CLASS PRODUCTIVITY

COMBINING THE PERFORMANCE OF A WHEEL LOADER AND AN EXCAVATOR



DIG, LOAD AND GRADE LIKE A CRAWLER EXCAVATOR!

Thanks to the curved arm design, load sensing hydraulics and extensive backhoe reach



B115B/B110B/B90B

BEST IN CLASS PRODUCTIVITY

THE ABILITY TO DIG AND LOAD LIKE A POWERFUL WHEEL LOADER



Lifts 3.2 ton at 3.5 m dumping height!

JUST LIKE A WHEEL LOADER!

- Maximize bucket filling with Powershift transmission and standard kick down function
- Easy leveling thanks to loader float function controlled from the joystick
- Shorter cycle times thanks to Automatic Return-to-dig button
- No loader arm bounce and increased bucket retention with optional Glide Ride
- Excellent traction in the worst conditions thanks to a 100% lockable differential, or a limited slip differential on the B115B



MORE POWER



100 or 110 hp that is 10 hp more than our main competitors !

SMOOTH CONTROL UNDER LOAD WITH POWERSHIFT



Available on BI 10B and BI 15B, the Powershift transmission provides maximum operator comfort.

In “full automatic mode” the transmission will auto-shift either up or down the gears, depending on speed and load, improving cycle times and simplifying road travel

For less sophistication, you can opt for our robust PowerShuttle transmission that is available on all models. It is the standard transmission on B90B

MINIMIZED DOWNTIME



Hydraulic side shift (option): Fast and accurate positioning of the boom without damaging the ground



Excellent lighting for night working



4 front working lights and 4 rear working lights (except B90B: 2 front + 2 rear)

B115B/B110B/B90B

**OPERATOR COMFORT MATTERS,
WELCOME ON BOARD!
ROOMY CAB WITH EASY ACCESS**



SIMULTANEOUS CONTROL

All loader and bucket controls are located on the joystick

DELUXE OPERATOR'S SEAT

- Adjustable comfortable armrest
- Pneumatically height adjustable suspension seat

EASY CLEANING

- Removable floor covering and flat cab floor make cleaning easier

STORAGE ROOM

- Cup holder
- Wider glove box

EXCELLENT VENTILATION

- Partial or full opening of both front and rear side windows
- Cab fan (option)
- Standard heater or air conditioning (option)

ALL CONTROLS UNDER YOUR HAND



FULLY ADJUSTABLE WORKING POSITION



QUIET WORKING ENVIRONMENT:

Cab interior 77 dB / exterior 103 dB

B115B/B110B/B90B

LOW COST OF OWNERSHIP



10% Fuel saving

A SIGNIFICANT COST SAVING

If your New Holland machine is used for 800h/year, we estimate that our new hydraulic system, including the Variable Displacement Pump, will result in average savings of up to 1000 \$/year



Vandal proof

PROTECT YOUR INVESTMENT ON SITE

- Secure hydraulic oil cap-breather
- Battery box is locked with a key
- Engine hood is lockable with a key
- An anti-theft device is available as option



Smart design

DRIVING LIGHT PROTECTION

Rear driving lights have 2 positions:

- transport position: on the stabs
- working position: on the cab, (see picture →) so that they are completely protected

WINDOW OPENING

Ventilation is optimized in the cab thanks to the partial or total opening of the side windows and the fully retractable rear screen





Maintenance friendly

BEST IN CLASS ACCESSIBILITY

Tilting engine hood provides excellent ground level access to the engine and service points.



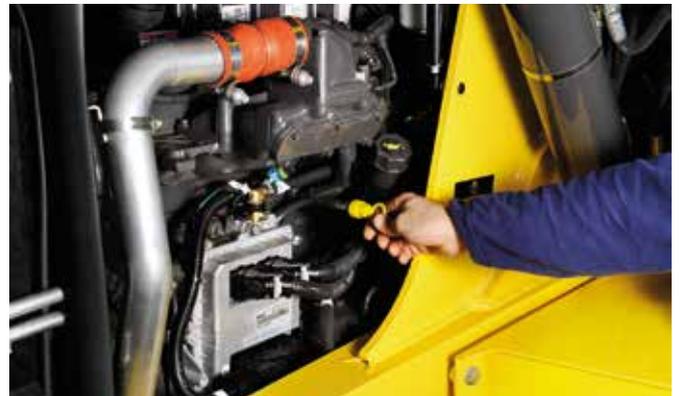
CENTRAL SERVICE POINT LOCATION

Daily check and fill points are accessible from ground level for time saving.

On the machine's left side, just above the fuel tank, you can easily reach:

- the hydraulic pressure check points,
- steering circuit,
- pilot control,

All grouped together for time and cost reduction whilst improving efficiency, durability and performance



EASY DIAGNOSIS

Rapid engine diagnosis is possible with the New Holland Electronic Service Tool

NO SEPARATE BRAKE FLUID

Hydraulic oil is used as the brake fluid, so no need to use separate tank and no risk of using the wrong fluid



PROTECTED BATTERY EASY TO REACH

The Battery is easily reached in the tool box located on the right side, underneath the cab. By removing one panel it is simple to access both the battery and the master switch.



SERVICE PLUS





THE NEW HOLLAND DEALER: YOUR PROFESSIONAL PARTNER

Your success starts with world-class New Holland machinery and attachments. Your New Holland dealer will help you work smarter and faster by selecting equipment that delivers performance and operator comfort. Your dealer has the knowledge and experience necessary to help you choose the right attachments so you can...

- **Work faster and extend equipment life.**
- **Increase machine utilization.**
- **Increase your capabilities.**

Let your New Holland dealer service your machine on the jobsite. You'll be back on the job faster. Advantages include...

- **Responsive job site service to keep your equipment running.**
- **Increase machine uptime.**
- **Certified service staff and improved parts availability.**

PARTS

When you're looking for superior parts options to maximize the performance and lower the operating costs of your New Holland machinery, turn to CNH Original Parts to keep you equipped for success.

CNH Original Parts fit better, install faster and last longer and in an industry where "high impact" and "heavy lifting" are the norm, the smallest mechanical differences can lead to big problems.

CNH Original Parts from New Holland are manufactured from superior materials and specifically designed for New Holland to continually and reliably withstand the punishment of everyday construction. So steer clear of mechanical problems and future breakdowns, by choosing CNH Original Parts from New Holland. They're the only parts that are field-tested and proven to keep your New Holland equipment performing its best.

SERVICE. RELY ON NEW HOLLAND TO DELIVER FOR YOU

Your commitment to your operation is evident every day, but that doesn't minimize the enormous pressure you face to reduce operating costs and improve productivity. So when you're on the job, make sure you have top-notch service and support of New Holland behind you every step of the way. With our factory trained technicians, you can ensure that top-notch service professionals are working on your maintenance needs, so you can focus on your business and the big job challenges ahead, not on the tasks of servicing your equipment.

With your New Holland Service, you get more than mere oil changes. A New Holland Service ensures your New Holland equipment receives a thorough service that meets all requirements of its service schedules and properly maintains it for the day-in, day-out punishment of construction work.

Don't give another thought to time-consuming maintenance tasks. Simply rest easy and make certain that your service needs are taken care of by a New Holland factory trained technician.





When the unexpected occurs, you need to know your equipment is protected. At New Holland we understand the importance of your machinery being in good working order when it counts. Service Plus is designed to help keep your equipment working well beyond the manufacturer's base warranty period while taking away the concerns of the cost and inconvenience of mechanical failure.

WHAT ARE THE ADVANTAGES OF SERVICE PLUS?

PEACE OF MIND

Provides protection beyond the Manufacturer's Base Warranty Period.

FLEXIBLE OPTIONS

Plans can be customised to meet individual needs.

DEPENDABLE SERVICE

Eligible repairs completed by an authorised New Holland Dealership and their trained service technician's using genuine OEM parts & lubricants.

TRANSFERABLE PROTECTION

New Equipment Plans may be transferred to a new owner at no charge

• STANDARD PROTECTION PLAN 3 Year / 3000 Hour

Additional years/hours can be purchased. Please contact your local New Holland dealer for further information.

STANDARD SERVICE PLUS PROTECTION PLAN CONSTRUCTION EQUIPMENT MASTER PARTS SCHEDULE

This plan provides coverage for the components listed below when a failure occurs due to a defect in material or workmanship, and may provide coverage for additional components not listed when the damage is caused by or resulting from a covered failure of a listed component.

PREMIER COMPONENTS COVERED

ENGINE AND ALL INTERNAL LUBRICATED COMPONENTS WITHIN	TRANSMISSIONS/AXLES/HYDROSTATICS	ELECTRICAL	HYDRAULICS
Accessory Gears	Axle Housing	Alternator	Accumulator And Related Relief Valve
Air Intake Hose	Axle Shaft	Gauges	Brake Accumulator
Camshaft	Clutch Discs (Wet Only)	Horn	Brake Pressure Sensor
Camshaft Bearings	Clutch Plates (Wet Only)	Indicators	Brake Pump, Brake Valve
Camshaft Drive Gear	Control Rods	Instruments	Differential Lock Valve
Catalytic Converter	Counter Shaft Clutch	Electronic Joysticks	Fan Pumps And Motors
Charge Air Cooler	Differential Housing	Electric Motors	Hydraulic Cylinders
Cold Start Enrichment Systems	Differential Pinion Gear / Ring Gear	Factory Installed Telematics	Hydraulic Hoses and Piping
Connecting Rods & Bearings	Drive Axle Hub	Sensors	Hydraulic Motors
Crankshaft Bearings & Gear	Drive Shaft Support Bearing	Solenoid Valves	Hydraulic Oil Coolers
Crankshaft Including Front And Rear Crankshaft Seals	Drive Shaft with Universal Joints	Starter And Starter Solenoid	Hydraulic Pumps
Cylinder Heads/ Head Gaskets	Electronic Transmission Controller and Valve	Switches	Hydraulic Reservoir
Cylinder Liners	Enclosed Oil Immersed Chains and Sprockets	Traction Control System	Hydraulic Valves
Diesel Exhaust Fluid Tank and Dispensing System	External Oil Lines	Voltage Regulator	Internal O-Rings and Bonded Washers
Diesel Particulate Filter	Filler Tubes (Transmission)	Wiring Harnesses	Pilot Control
EGR System Manifold	Final Drive Pinion	Wiring Harnesses Exclusions	Pressure Reducing Valves
Electronic Engine Control Module	Final Drive Planetary Gears	Rubbing, Chafing, Loose Or Corroded Connections	Unloading Valves
Engine Block	Front Wheel Drive Sensors	FACTORY INSTALLED HEAT AND AIR CONDITIONING	STRUCTURAL
Engine Mounts And Supports	Hydraulic Drive / Travel Motor	Accumulator	Backhoe Booms
Engine Oil Cooler	Hydraulic Drive Pump	Clutch	Backhoe/Excavator Dipper Sticks
Engine Speed Controls, Linkages, and Cables	Hydraulic Transmission-Control Valve	Compressor	C Frame
Exhaust Manifold and Muffler	Hydrostatic Motor	Condenser	Car Body
Fan And Fan Drive	Hydrostatic Transmission Charge Pump	Dryer	Chassis
Filter Mount	Hydrostatic Transmission Pump	Evaporator	Circle Frame
Flywheel, Ring Gear	Hydrostatic/Hydraulic Pump Drives	Expansion Valve	Engine Frame
Front And Rear Engine Covers And Seals	Internal Lubricated Clutch Housings	Heater Core	Equipment Frame
Front Damper	Internal Transmission Control Linkage	Hoses	Excavator Booms
Fuel Lines	Internal Wet Service Brakes	Pulley	Falling Object Protection Structure (FOPS)
Fuel Tank	MFWD Axle/Differential Assembly including Driveshaft and U Joint	Seals & Gaskets	Forklift Masts
Fuel Transfer Pump & Gasket	Planetary Gear Carrier	Temperature Control Programmers and Valves	Inner and Outer Dipper Arms of the Extendable Boom (Backhoe Loader)
Injection Pump	Pneumatic Valves	OPERATOR AREA	Main Frame
Injectors	Rotary Hydraulic Manifold	Covers and Panels	Rollover Protection Structure (ROPS)
Intake and Exhaust Manifold And Gaskets	Splitter Drive/Drop Box	Exterior/Interior Door/Panel Latches, Hinges & Struts	Swing Frame
Oil Filler Tube	Steering Clutches (Wet)	Exterior/Interior Moldings	Swing Tower Castings (Backhoe Loader)
Oil Lines	Swing Motor And Swing Gear Box	Knobs for Switches and Handles	Track Frame
Oil Pan And Gasket	Torque Converter	Mirrors	Wheel Loader/Skid steer Loader Arms
Oil Pump	Torque Converter Pump	Seat Frame & Suspension	
Pistons & Rings	Transfer Drive		
Pre-Cleaner/Air Cleaner Housing	Transmission Case		
Pressure/Temperature Sensors & Sending Units	Transmission Gears, Bearings, & Shafts		
Pulleys	Transmission Pump		
Radiator	Travel & Swing Sections (only) Of Main Control Valve		
Rocker Arm Assembly	Travel Control Valve		
Selective Catalytic Reduction System	Turntable Bearing		
Thermostats	Undercarriage Roller And Idler Seals And Bearings		
Timing Gears	Undercarriage Tensioners		
Turbocharger And Gasket	UNDERCARRIAGE EXCLUSIONS:		
Valve Cover And Gasket	Sprocket, Tracks, Pads, Bolts, Chains, Or Any Failure Due To Wear, Or Breakage Caused By Wear		
Water Piping			
Water Pumps			

This plan excludes coverage for any failure to any component caused by or resulting from the failure of a component not listed as a covered component, including any resulting damage to a listed component. See the Terms and Conditions document for complete plan details.

B115B/B110B/B90B



B115B

MAIN FEATURES

SPECIFICATIONS

HYDRAULICS

Type of pump

Maximum flow

Maximum pressure level

BATTERY

OPERATING WEIGHT

- with standard backhoe and 6-in-1 bucket

- with Extendible Backhoe and 6-in-1 bucket

TURNING RADIUS (front tyres 12.5/80-18, wheel not braked, 4WD engaged)

- at ext. edge of front tyres

- at bucket corner

AXLES, TYRES & BRAKE

Brakes:

Tires can be multipurpose, hard soil specific or soft soil specific

Tires

Front axle with +/- 11° oscillation

CAPACITIES

Fuel tank

Cooling system

EMISSIONS

CO₂ emissions (g/kWh)

NO_x emissions

HC emissions

CO emissions

PM emissions

NO_x + NMHC emissions

NOISE

Internal (dB(A))

External (dB(A))

VIBRATION LEVELS

Upper limbs 2,5 m/s²

Abdomen 0,5 m/s²

	B115B	B110B
	4 equal-sized wheel steer 1.2 m ³ bucket 112 hp Powershift Transmission (standard) Pilot / Mechanical Control 4.5 litre FPT Industrial engine turbocharged, common rail injection 110 hp @ 2200 rpm / 520 Nm @ 1400 rpm	20" or 18" tires 2-wheel steer 1.2 m ³ bucket or 1.0 m ³ bucket 112 hp Powershift / Powershuttle Transmission Pilot / Mechanical Control 4.5 litre FPT Industrial engine turbocharged, common rail injection 110 hp @ 2200 rpm / 520 Nm @ 1400 rpm
	Variable Displacement	Variable Displacement
	6 to 156 l/min @ 2200 rpm	6 to 156 l/min @ 2200 l/min
	205 bars	205 bars
	12V 95Ah, 900 A (SAE) - 120 A	12V 95Ah, 900 A (SAE) - 120 A
	8870	8270
	9100	8500
	4300 mm	4300 mm
	5600 mm	5600 mm
	Power Brake with 2472 cm ² friction area	Power Brake with 2472 cm ² friction area
	24" front with 24" or 28" front with 28"	18" front with 26" or 28" rear or 20" front with 30" rear
	Limited Slip Differential	100% lockable
	135 l	145 l
	24 l	24 l
	744	744
	3.6	3.6
	0.1	0.1
	1.3	0.9
	0.13	0.13
	3.7	3.7
	77	77
	103	103
	2.5	2.5
	0.5	0.5



B110B



B90B

MAIN FEATURES

SPECIFICATIONS

HYDRAULICS

Type of pump	
Maximum flow	
Maximum pressure level	

BATTERY

OPERATING WEIGHT

- with standard backhoe and 6-in-1 bucket
- with Extendible Backhoe and 6-in-1 bucket

TURNING RADIUS (front tyres 12.5/80-18, wheel not braked, 4WD engaged)

- at ext. edge of front tyres
- at bucket corner

AXLES, TYRES & BRAKE

Brakes:
Tires can be multipurpose, hard soil specific or soft soil specific

Tires

Front axle with +/- 11° oscillation

CAPACITIES

Fuel tank
Cooling system

EMISSIONS

CO₂ emissions (g/kWh)
NO_x emissions
HC emissions
CO emissions
PM emissions
NO_x + NMHC emissions

NOISE

Internal (dB(A))
External (dB(A))

VIBRATION LEVELS

Upper limbs 2,5 m/s²
Abdomen 0,5 m/s²

B90B

18" tires 2-wheel steer
1.0 m³ bucket
100 hp
Powershuttle Transmission (standard)
Mechanical Control (standard)
4.5 litre FPT Industrial engine turbocharged and aftercooled, direct mechanical injection
97 hp @ 2200 rpm / 400 Nm @ 1250 rpm

Twin Gear Pump -2 bodies
151 l/min @ 2200 l/min
205+- 3 bars

12V 95Ah, 900 A (SAE) - 120 A

7970 kg
8200 kg

4300 mm
5600 mm

Power Brake with 2472 cm² friction area

18" front with 26" or 28" rear

100% lockable

145 l
24 l

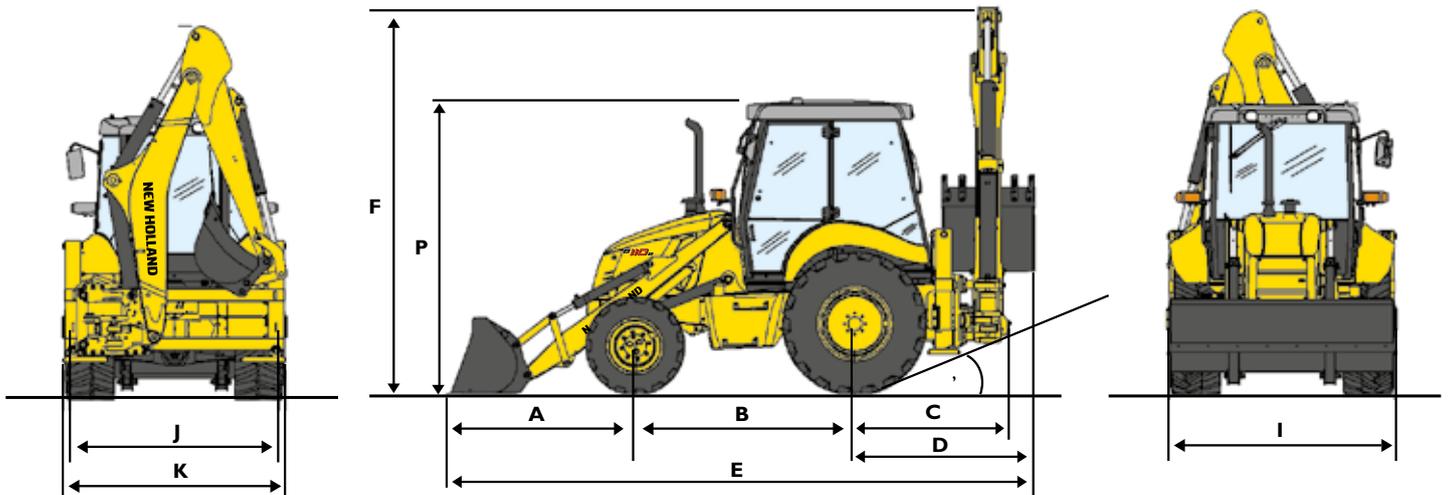
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4.1
0.1
1.8
0.26
4.2

77
102

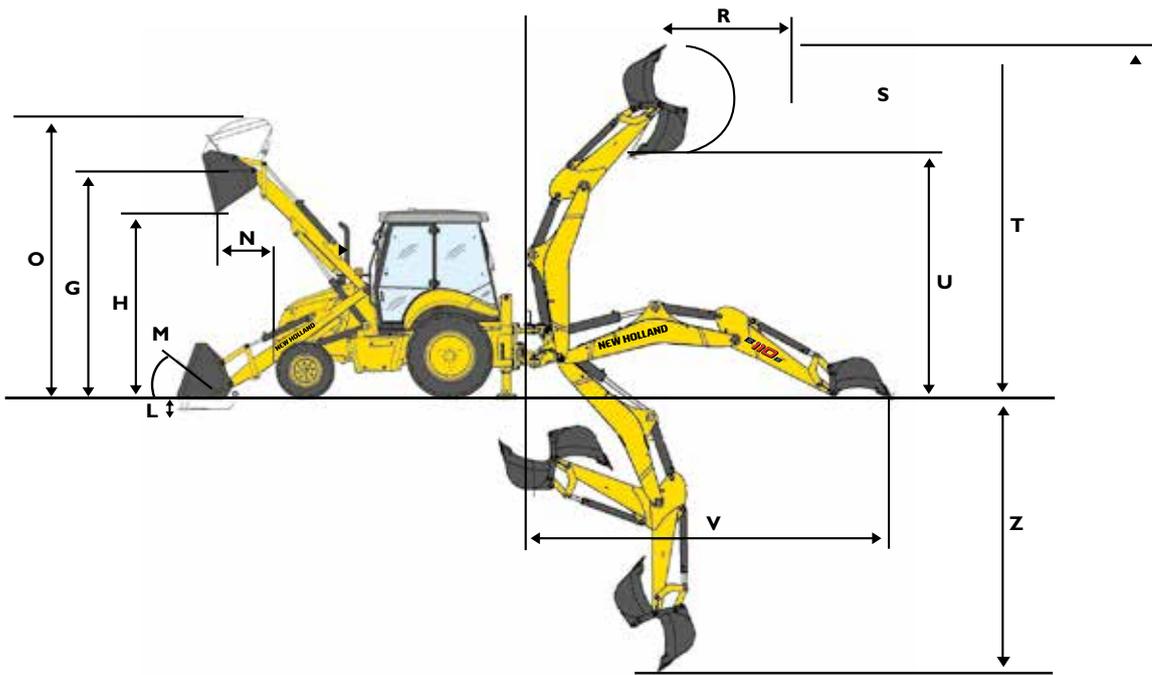
2.5
0.5

B115B/B110B/B90B

SPECIFICATIONS



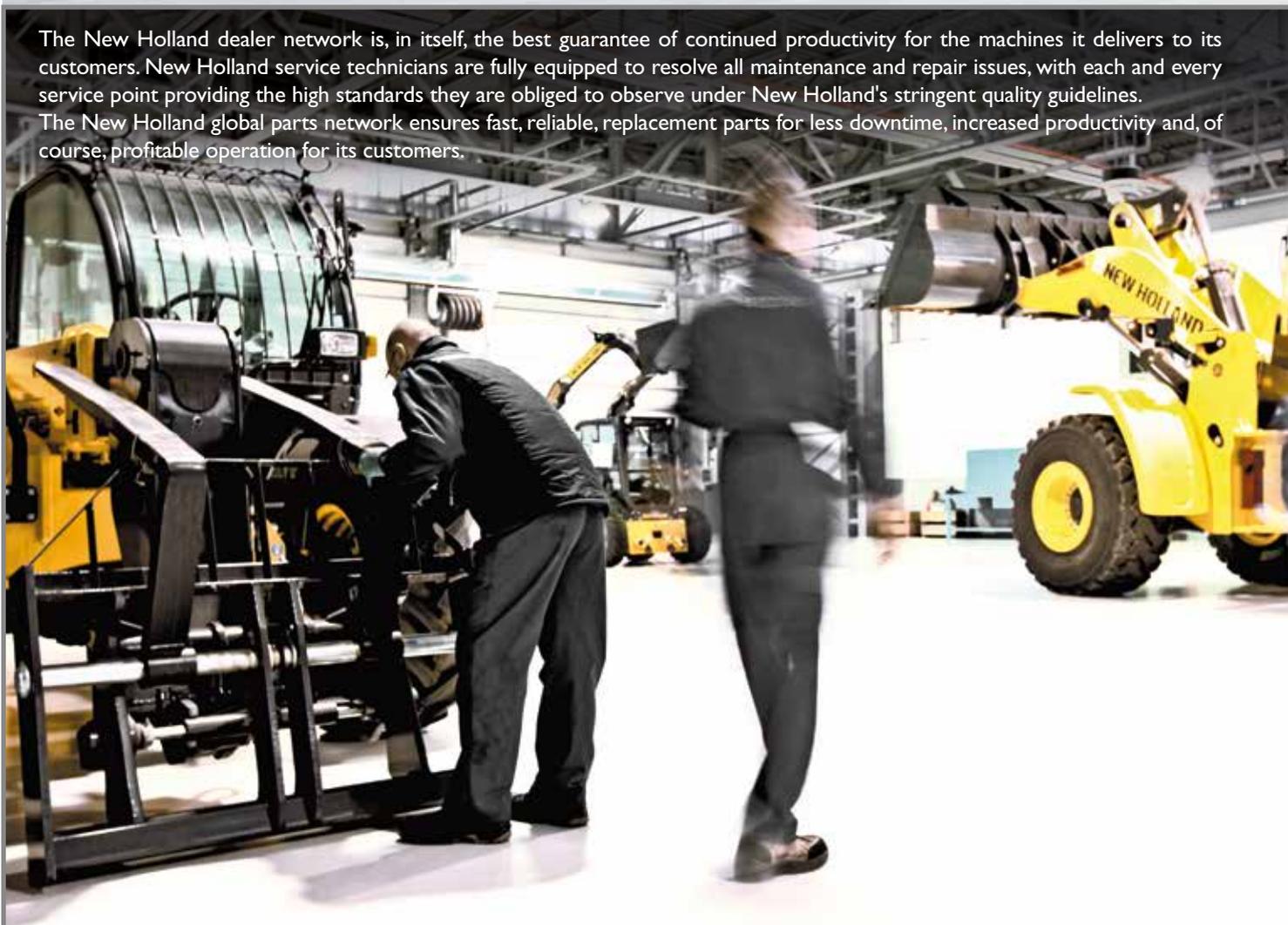
		B115B		B110B	
OVERALL DIMENSIONS					
A	Ground distance over front axle	mm	1965		1870
B	Wheelbase	mm	2200		2175
C	Pivot distance over rear axle	mm	1325		1320
D	Max distance over rear axle (with 915 mm backhoe bucket)	mm	1780		1780
E	Overall length	mm	5945		5825
F	Height to top of boom	mm	3930		3825
	Back ramp angle	°	22		23
P	Cab height	mm	2960		2940
I	Loader bucket width	mm	2400		2250/2400
J	Stabiliser width	mm	2250		2250
K	Overall width	mm	2325		2325
LOADER SPECIFICATIONS			TC version		STD version
	Maximum loader breakout force	daN	7400	6650	6900
	Lifting capacity to maximum height	kg	3550	3195	3550
L	Digging depth	mm	115	125	75
M	Bucket roll back angle on ground	°	45	46	40
N	Reach at full height	mm	825	813	785
O	Maximum operating height	mm	4480	4405	4330
G	Hinge pin height	mm	3490	3460	3500
H	Maximum dump height under bucket at 45°	mm	2650	2693	2780
BACKHOE SPECIFICATIONS			retracted	extended	retracted
	Bucket Breakout force	daN	6400		6400
	Dipper breakout force (Std Dipper/HED retracted)	daN	4620		4620
	Dipper breakout force (HED extended)	daN	3200		3200
R	Digging reach at max height	mm	2315	3130	2330
S	Bucket rotation	°	204	204	204
T	Digging height	mm	5815	6475	5650
U	Dumping height	mm	4090	4750	3930
V	Digging reach at ground level	mm	5850	6810	5860
Z	Digging depth	mm	4565	5600	4710
	Bucket rotation	°	203		203



		B90B		
OVERALL DIMENSIONS				
A	Ground distance over front axle	mm	1870	
B	Wheelbase	mm	2175	
C	Pivot distance over rear axle	mm	1320	
D	Max distance over rear axle (with 915 mm backhoe bucket)	mm	1780	
E	Overall length	mm	5825	
F	Height to top of boom	mm	3875	
G	Back ramp angle	°	23°	
P	Cab height	mm	2940	
I	Loader bucket width	mm	2250	
J	Stabiliser width	mm	2250	
K	Overall width	mm	2325	
LOADER SPECIFICATIONS		STD version		
	Maximum loader breakout force	daN	6900	
	Lifting capacity to maximum height	kg	3550	
L	Digging depth	mm	75	
M	Bucket roll back angle on ground	°	40	
N	Reach at full height	mm	785	
O	Maximum operating height	mm	4330	
G	Hinge pin height	mm	3500	
H	Maximum dump height under bucket at 45°	mm	2780	
BACKHOE SPECIFICATIONS		retracted	extended	
	Bucket Breakout force	daN	6400	
	Dipper breakout force (Std Dipper/HED retracted)	daN	4620	
	Dipper breakout force (HED extended)	daN	3200	
R	Digging reach at max height	mm	2330	3190
S	Bucket rotation	°	204	204
T	Digging height	mm	5650	6305
U	Dumping height	mm	3930	4585
V	Digging reach at ground level	mm	5870	6815
Z	Digging depth	mm	4710	5750
	Bucket rotation	°	203	

PARTS AND SERVICE

The New Holland dealer network is, in itself, the best guarantee of continued productivity for the machines it delivers to its customers. New Holland service technicians are fully equipped to resolve all maintenance and repair issues, with each and every service point providing the high standards they are obliged to observe under New Holland's stringent quality guidelines. The New Holland global parts network ensures fast, reliable, replacement parts for less downtime, increased productivity and, of course, profitable operation for its customers.



AT YOUR OWN DEALERSHIP

The information contained in this brochure is intended to be of general nature only. The NEW HOLLAND CONSTRUCTION MACHINERY S.p.A. company may at any time and from time to time, for technical or other necessary reasons, modify any of the details or specifications of the product described in this brochure. Illustrations do not necessarily show products in standard conditions. The dimensions, weights and capacities shown herein, as well as any conversion data used, are approximate only and are subject to variations within normal manufacturing techniques.

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